Explore Multiplication

Find $0.5 \times 0.3 = n$.

**Step 1:** Use a $10 \times 10$ grid. Shade 0.5 of the grid in one color.

**Step 2:** Shade 0.3 of the grid in another color and in the other direction.

**Step 3:** Write a fraction that describes the part of the square that is shaded twice. Count the doubly shaded squares.

- 15 squares are shaded twice.
- $\frac{15}{100}$ of the grid is shaded twice.
- $\frac{15}{100} = 0.15$

So $0.5 \times 0.3 = 0.15$.

Use models or fractions to multiply. Write each product as a decimal.

1. $0.3 \times 0.2$
2. $0.4 \times 0.6$
3. $0.8 \times 0.4$
4. $0.9 \times 0.7$

5. $1.2 \times 0.3$
6. $0.4 \times 1.8$
7. $2.6 \times 0.5$
8. $0.8 \times 2.3$

9. $2.1 \times 0.9$
10. $1.7 \times 0.5$
11. $0.8 \times 2.8$
12. $0.1 \times 2.6$